

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

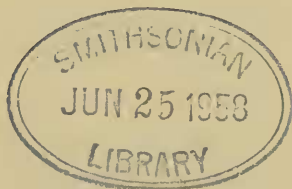
**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

**VOLUME 1. SECTION F. Part F.13. Pp. 201—216**

## **DIRECTION 102**

Validation under the Plenary Powers of the generic  
name *Dracunculus* Reichard, 1759 (Class ~~I~~ Nematoda)  
(*Direction* supplementary to *Opinion* 66)



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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

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(16th December 1954)

## DIRECTION 102

### VALIDATION UNDER THE PLENARY POWERS OF THE GENERIC NAME "DRACUNCULUS" REICHARD, 1759 (CLASS NEMATODA) ("DIRECTION" SUPPLEMEN- TARY TO "OPINION" 66)

**RULING :—**The following action is hereby taken  
under the Plenary Powers :—

- (a) The generic name *Dracunculus* Reichard, 1759 (Class Nematoda) is hereby validated.
- (b) The nominal species *Gordius medinensis* Linnaeus, 1758, is hereby designated to be the type species of the genus *Dracunculus* Reichard, 1759, as validated under the Plenary Powers in (a) above.

(2) The following revised entry relating to the generic name *Dracunculus* Reichard, 1759, is hereby inserted in the *Official List of Generic Names in Zoology* in place of the entry made thereon as Name Number 3 by the Ruling given in *Opinion* 66 :—

- 3. *Dracunculus* Reichard, 1759, as validated under the Plenary Powers in (1)(a) above (gender : masculine) (type species, by designation under the Plenary Powers in (1)(b) above : *Gordius medinensis* Linnaeus, 1758).

(3) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* with the Name Number 1525 :—

*medinensis* Linnaeus, 1758, as published in the combination *Gordius medinensis* (specific name of type species of *Dracunculus* Reichard, 1759).

(4) The under-mentioned generic names are hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name Numbers severally specified below :—

- (a) *Draconculus* Penel, 1904 (an Erroneous Subsequent Spelling for *Dracunculus* Reichard, 1759) (Name No. 1162) ;
- (b) *Dracunculus* Wiegmann, 1834 (a junior homonym of *Dracunculus* Reichard, 1759) (Name No. 1163) ;
- (c) *Dracunculus* Krøyer, [1838—1840] (a junior homonym of *Dracunculus* Reichard, 1759) (Name No. 1164) ;
- (d) *Dracuncuus* Moniez, 1896 (an Erroneous Subsequent Spelling for *Dracunculus* Reichard, 1759) (Name No. 1165) ;
- (e) *Fuellebornius* Leiper, 1926 (a junior objective synonym of *Dracunculus* Reichard, 1759, as defined under the Plenary Powers in (1)(b) above) (Name No. 1166) ;
- (f) *Vermiculus* Moersch, 1860 (a junior homonym of *Vermiculus* Dalyell, 1853) (Name No. 1167) ;
- (g) *Vermiculus* Goodrich, 1892 (a junior homonym of *Vermiculus* Dalyell, 1853) (Name No. 1168) ;

- (h) *Vermiculus* Duglison, 1895 (a junior homonym of *Vermiculus* Dalyell, 1853) (Name No. 1169).

(5) The under-mentioned family-group name is hereby placed on the *Official List of Family-Group Names in Zoology* with the Name Number 236 :—

DRACUNCULIDAE Stiles (C.W.), 1907 (type genus : *Dracunculus* Reichard, 1759).

(6) The titles of the under-mentioned works are hereby placed on the *Official Index of Rejected and Invalid Works in Zoological Nomenclature* with the Title Numbers severally specified below :—

- (a) Reichard (J.J.), 1759, *De Pediculis iniquinalibus, insectis, et vermibus homini molestis* [Praeses : Kniphof (J.H.)] (Title No. 57) ;

- (b) Gallandat (D.H.), 1773, *Dissertatio de Dracunculo sive Vena Medinensi* (Title No. 58).

## I. THE STATEMENT OF THE CASE

The present *Direction* is concerned with the rectification of the entry relating to the generic name *Dracunculus* Reichard, 1759 (Class Nematoda) made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 66. The need for action in this case came to light in the course of the preparations for the publication of the above *Official List* in book-form. This is the last of the cases arising in connection with *Opinions* published in the period up to the end of 1936 on which corrective action will be taken before the publication of the above volume, the relatively small number of further cases on which such action

is required having been postponed by the Commission for consideration after the publication of the *Official List* volume, in order to avoid further delay in its publication and to ensure that it shall be available before the meeting of the Fifteenth International Congress of Zoology in London in July 1958. The material upon which the decision was taken by the Commission in the present case was based was submitted to the Commission by the Secretary in the following Report on 4th February 1957 :—

**Proposed use of the Plenary Powers to validate the generic name “*Dracunculus*” Reichard, 1759, and to designate “*Gordius medinensis*” Linnaeus, 1758, as type species in harmony with accustomed usage (Class Nematoda) (validation of an erroneous entry on the “*Official List of Generic Names in Zoology*” made by the Ruling given in “*Opinion*” 66)**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The purpose of the present Report is to bring to the attention of the International Commission on Zoological Nomenclature the defective character of the entry relating to the generic name *Dracunculus* Reichard, 1759 (Class Nematoda) on the *Official List of Generic Names in Zoology* made by the Ruling given in *Opinion* 66 (1915, *Smithson. Publ.* 2359 : 171—176) and to submit recommendations for the validation of the entry so made. The problems involved in the present case were brought to my attention by Professor R. T. Leiper, D.Sc., F.R.S., who very kindly supplied me with an offprint of a paper entitled “Discussion of the Validity of certain Generic Names at present in use in Medical Helminthology” published in 1926 (*Arch. Schiffs-u. Tropenhyg.* 30 : 484—491), in which he had discussed the present and certain other generic names in the Nematodes. An extract from Professor Leiper’s paper is attached to the present application as Annexe 1.

2. In accordance with the practice which obtained up to the year 1935, the entry of the generic name *Dracunculus* Reichard on the *Official List* was of an extremely abbreviated character and did not contain full bibliographical references for the names concerned. The entry in question read as follows : “*Dracunculus* ‘Kniphof, 1759, 12’ (not verified); Gallandat, 1773a, 103—116, type *medinensis* (in *Homo*)”.



3. The work published in 1759 to which the name *Dracunculus* was attributed in *Opinion* 66 is a doctoral thesis of the type commonly found in the XVIIIth century. The thesis was presented by Reichard who had studied under Kniphof, whose name, as that of the professor concerned, appears on the title page as well as that of Reichard. The title of this thesis was : *De Pediculis inguinalibus, insectis, et vermibus homini molestis*. Since this thesis was published in Germany (Erfurt), new names in it are attributable to Reichard and not to his professor (Kniphof), for the system under which theses were written by the professor and not by the student which was universal in Sweden in the XVIIIth century is believed not to have obtained in Germany. The name "Dracunculus" appears on page 12 of this thesis (the page so indicated in *Opinion* 66). This work has been examined in the Office of the Commission and this examination shows that, as published in 1759, the name *Dracunculus* was used only as a univernal species-name or as a vernacular (Latin) term to denote the species there styled in German the "Nestel-wurm". This examination shows also that in this thesis the system of nomenclature employed was of the pre-1758 mixed system comprising multivernal and univernal names applied indiscriminately to species. This conclusion is illustrated by the detailed particulars given in Annexe 2 to the present paper. The examination now carried out fully confirms the view expressed by Professor Leiper (paragraph 1 above) that the name *Dracunculus* cannot be regarded under the normal provisions of the *Règles* as having been validly published as a generic name in the Reichard/Kniphof thesis. It is seen also that the system employed in this thesis, being non-binominal, disqualifies the thesis as a whole from consideration from the point of view of zoological nomenclature.

4. It will be noted from the entry in *Opinion* 66 that the original reference for the so-called generic name *Dracunculus* Reichard had not been examined at the time when the recommendation for the addition of that name to the *Official List* was submitted to the Commission. It may be inferred, however, that the author of that application himself had some doubts as to the availability of the name *Dracunculus* as from 1759, for it is not easy otherwise to account for the fact that he thought it necessary to add the supplementary reference to "Gallandat, 1773". The reference here is to another thesis. This thesis was published in Nuremberg. It was entitled "*Dissertatio de Dracunculo sive Vena Medinensi*", and is fully discussed by Professor Leiper in the paper to which reference has already been made. Particulars are given in the extract from that paper reproduced in Annexe 1. From this it will be seen (a) that David Henri Gallandat did not use the word "Dracunculus" as a generic name, and (b) that in this thesis he did not apply the principles of binominal nomenclature.

5. Professor Leiper showed also (Annexe 1) that the name *Dracunculus* had not been validly used for the Nematoda genus in question by the time when in 1834 the situation was further complicated

by the publication by Wiegmann of the name *Dracunculus* for a genus of reptiles (*Dracunculus* Wiegmann, 1834, *Herpet. mex.* : 14). There is also a reputed generic name *Dracunculus* for a genus of fishes (*Dracunculus* Krøyer (H.N.), [1838—1840], *Danmarks Fiske* 1 (No. 8) : 1). Neither of these names is currently in use and it is very doubtful whether, as published by Krøyer, the name *Dracunculus* was really intended to be a generic name.

6. The name *Dracunculus* began to come into use for the present Nematode genus in the early sixties of the last century and has been used on innumerable occasions during the following ninety years. For this reason its overthrow at this date would be extremely confusing not only in taxonomic literature but also in medical literature, where it has given its name to the widely used term "Dracunculosis" (see Stiles & Hassall, 1920, *Bull. Hyg. Lab.*, Washington 114 : 360—364 "Index-Cat. med. vet. Zool., Roundworms"). Incidentally it may be noted that, apart from *Dracunculus*, the oldest name for this genus is *Vermiculus* Duglison, 1895 (*Med. Lex.*, Philadelphia (ed. 21) : 1150), which however, is itself invalid as a junior homonym of three other generic names consisting of the same word, the earliest being *Vermiculus* Dalyell, 1853 (*Powers Creator* 2 : iv, 88). Professor Leiper concluded (1926) (Annexe 1) that, if the name *Dracunculus* were to be rejected for this genus, the Guinea worm, *Gordius medinensis* Linnaeus, 1758 (*Syst. Nat.* (ed. 10) 1 : 647), would be left without a valid generic name. He therefore on that occasion erected the new nominal genus *Fuellebornius* for *Gordius medinensis* Linnaeus (Leiper, 1936, *Arch. Schiffs-Tropenhyg.* 30 : 491).

7. The genus *Dracunculus* Reichard is treated as the type genus of a family-group taxon. This nominal taxon was first established as a subfamily DRACUNCULINAE by Stiles (C.W.) in 1907 (*Bull. hyg. Lab.*, Washington 34 : 38, 39), but was elevated to full family rank by Leiper in 1912 (*J. London School trop. Med.* 1(2) : 115—123).

8. Having regard to the fact that the name *Dracunculus* Reichard, 1759, is and for long has been, in general use and is moreover a name of importance in medical literature, this appears to be a case where the correct course will be to take such action as is necessary to validate the entry of this name made on the *Official List of Generic Names in Zoology* forty-two years ago. Like other cases concerned with the validation or correction of entries on the *Official List of Generic Names in Zoology* made in the period up to the end of 1936, the present case is one of considerable urgency, for a decision on it is a prerequisite to the publication of the *Official Lists* in book-form, the preparations for which are now well advanced. The proposals which for the reasons set out above are now submitted for consideration are that the International Commission on Zoological Nomenclature should :—



(1) use its Plenary Powers to validate the generic name *Dracunculus* Reichard, 1759, with *Gordius medinensis* Linnaeus, 1758, as type species ;

(2) substitute the following amended entry regarding the above generic name on the *Official List of Generic Names in Zoology* for the entry therefor made by the Ruling given in *Opinion* 66 :—

*Dracunculus* Reichard, 1759, as validated under the Plenary Powers in (1) above (gender : masculine) (type species, by designation under the Plenary Powers in (1) above : *Gordius medinensis* Linnaeus, 1758)

(3) place the under-mentioned specific name on the *Official List of Specific Names in Zoology* :—

*medinensis* Linnaeus, 1758, as published in the combination *Gordius medinensis* (specific name of type species of *Dracunculus* Reichard, 1759, as validated under the Plenary Powers under (1) above)

(4) place the under-mentioned generic names on the *Official Index of Rejected and Invalid Generic Names in Zoology* :—

(a) the under-mentioned junior homonyms of *Dracunculus* Reichard, 1759, as validated under the Plenary Powers in (1) above :—

(i) *Dracunculus* Wiegmann, 1834 ;

(ii) *Dracunculus* Krøyer, [1838—1840] ;

(b) *Fuellebornius* Leiper, 1926 (type species : *Gordius medinensis* Linnaeus, 1758) (a junior objective synonym of *Dracunculus* Reichard, 1759, as validated under the Plenary Powers in (1) above) ;

(c) *Vermiculus* Duglison, 1895 (a junior homonym of *Vermiculus* Dalyell, 1853) ;

(d) the under-mentioned Erroneous Subsequent Spellings for *Dracunculus* Reichard, 1759 :—

(i) *Draconculus* Penel, 1904, *Filaires Sang l'Homme* : 61 ;

(ii) *Dracuncuus* Moniez, 1896, *Traité Parasitol.* : 317 ;

(5) place the under-mentioned family-group name on the *Official List of Family-Group Names in Zoology* :—

DRACUNCULINAE Stiles (C.W.), 1907 (type genus : *Dracunculus* Reichard, 1759)

(6) place on the *Official Index of Rejected and Invalid Works in Zoological Nomenclature* the titles of the under-mentioned works, with an endorsement in each case that the work is unavailable for the purposes of zoological nomenclature, the author concerned not having applied therein the principles of binominal nomenclature :—

- (a) Reichard (J.J.), 1759, *De Pediculis inguinalibus, insectis, et vermibus homini molestis* [Praeses : Kniphof (J.H.)] ;
- (b) Gallandat (D.H.), 1773, *Dissertatio de Dracunculo sive Vena Medinensi*.

## ANNEXE 1 TO THE SECRETARY'S REPORT

Extract from a paper by Professor R. T. Leiper entitled “ Discussion of the Validity of certain Generic Names in use in medical Helminthology ” published in 1926

(Leiper, 1926, *Arch. Schiffs-u. Tropenhyg.* 30 : 490—491)

### Dracunculus

Among pre-Linnaean writers the Guineaworm was familiarly known in Latin vernacular as the “ Dracunculus ” or “ Vena medinensis ” according to the views of the individual author on the nature of the object found in cases of Dracontiasis. I cannot find any grounds for believing that Dracunculus was used as a valid generic term after Linnaeus, 1758, and prior to its use for a genus of Reptilia by Wiegmann in 1834. In 1758 Linnaeus named the Guineaworm *Gordius medinensis*. Gmelin in 1790 transferred it to the genus *Filaria* and there it remained, so far as I have been able to ascertain, until Cobbold 1864, i.e., many years after the term *Dracunculus* had been taken by Wiegmann for the name of an entirely different group. The usual citation is Kniphof, 1759 or Reichard, 1759. Consultation of the original shows that the thesis quoted is by Reichard, while the presiding examiner was Kniphof ! There is no evidence in the text that the use of *Dracunculus* was in other than the vernacular sense. The same comment applies to Gallandat, 1773, so frequently cited. Gallandat's thesis is entitled “ *Dissertatio de Dracunculo sive Vena Medinensi* ”. I quote two paragraphs which appear to bear on the subject. 1. “ Tales inter morbos referendus omnino is est, qui Dracunculus dicitur, sive Vena medinensis. Qui morbus, quo in Europa rarior, eo etiam est periculosior ”. 2. “ Morbus hic obvius

est non tantum in Guinea et in India orientali, sed et Medinae, a qua urbe nomen Venae Medinensis assumsit . . . Partes corporis adficit varias ; pectus, ventrem, scrotum, saepius tamen crura ; unde et Vena cruris dicitur. Morbus incipit a tumore inflammatorio . . . Fit apertura, qua exit major minorve puris quantitas, simulque corpus quoddam longum, rotundem, flexile, abbicans funiculi speciem figura et crassita referens ; quod corpus est organicum ac vivum, verboque ut dicam, verus mirae longitudinis vermis ; cui inditum fuit nomen Dracunculi ”.

The above quotations surely suffice to establish clearly that Gallandat makes no pretension to consideration in zoological nomenclature. Similarly the *Malis dracunculus* used by Chisholm 1815 cannot be considered binomial in intention.

With *Dracunculus* already pre-occupied there only remains in its synonymy *Vermiculus* Duglison, 1895 ; listed by Baylis and Daubney and by Yorke and Maplestone. This, however, is likewise pre-occupied. Apparently the Guineaworm still lacks a valid name among nematode genera. The present seems a suitable occasion to link with one of the most remarkable of the nematodes of man the name of one who has contributed so greatly to our knowledge of this group of parasites. I designate therefore, *Gordius medinensis* Linnaeus, 1758 type of *Fuellebornius* nom. nov.

## ANNEXE 2 TO THE SECRETARY'S REPORT

**Note on the thesis by Reichard (J.J.), entitled “ De Pediculis inqualibus, insectis, et vermibus homini molestis ” [Praeses : Kniphof (J.H.) published in 1759]**

The thesis is divided into numbered paragraphs, which are grouped into short sections. The names of the animals dealt with in each section are given as cross-headings. As will be seen from the following particulars of the headings used for the sections no attempt was made to apply the principles of binominal nomenclature :—

Lumbricus ; Vermis Sancti Viti ; Ascarides ; Taenia [4 spp., polynominally named, with refs. to the *Faun. svec.*] ; Cucurbitini ; Dracunculus ; Pulex ; Pulex minimus, cutem penetrans americanus ; Catuli ; Hirundo ; Culex ; Crinones ; Acarus ; Acari capitis ; Acari oculorum ; Acari faciei ; Acari Dentium ; Acari Scabei ; Acari manuum ; Acari in urina ; Cimex ; Pediculus ; Morpion ;

2. The section referring to "Dracunculus" reads as follows :—

#### §XIV

#### DRACUNCULUS

*Der nestel-wurm, das Faden Schlenglein, der Drache, Dracunculus. Animalculum Africae cumprimis, tum Asiae-provinciis, compluribus domesticum Vena medinensis, chordae in cithara crassitae, cubite longitudine, infectum Culebrilla dictum serpentis similitudine, qui Hispanico idomate Culebra nuncupator, a latino Coluber. Efficit in cute tumorum . . . [etc.]*

### II. THE SUBSEQUENT HISTORY OF THE CASE

**2. Registration of the present application :** When in 1951 it became apparent that there were serious defects in the entry relating to the generic name *Dracunculus* Reichard, 1759, made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 66 and that, when all the required data had been obtained, it would be necessary to submit a Report on this case to the International Commission, the problem so involved was allotted the Registered Number Z.N.(S.) 553.

**3. Publication of the present application :** The present application was sent to the printer on 7th February 1957 and was published on 6th May of that year in Part 5 of Volume 13 of the *Bulletin of Zoological Nomenclature* (Hemming, 1957, *Bull. zool. Nomencl.* **13** : 154—159).

**4. Issue of Public Notices :** Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* **4** : 51—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case was given on 6th May 1957 (a) in Part 5 of Volume 13 of the *Bulletin of Zoological Nomenclature* (the Part in which the Secretary's Report was published) and (b) to the other prescribed serial publications. In addition, such Notice was given to four general zoological serial publications.

**5. No Objection Received :** No objection to the action proposed in the present case was received from any source.

### III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**6. Issue of Voting Paper V.P.(57)65 :** On 6th November 1957 a Voting Paper (V.P.(57)65) was issued in which the Members of the Commission were invited to vote either for, or against, " the proposal relating to the validation of the entry relating to the generic name *Dracunculus* Reichard, 1759 (Class Nematoda), made on the *Official List* by the Ruling given in *Opinion* 66, as set out in Points (1) to (6) in paragraph 8 on pages 156 and 157 of Volume 13 of the *Bulletin of Zoological Nomenclature* " [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*].

**7. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 6th February 1958.

**8. Particulars of the Voting on Voting Paper V.P.(57)65 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(57)65 was as follows :—

- (a) *Affirmative Votes had been given by the following twenty-four (24) Commissioners (arranged in the order in which Votes were received) :*

Boschma ; Holthuis ; Lemche ; Hering ; Mayr ;  
Mertens ; Dymond ; Vokes ; Esaki ; Bradley (J.C.) ;  
Riley ; Prantl ; Bonnet ; do Amaral ; Miller ;  
Bodenheimer ; Hankó ; Hemming ; Stoll ; Key ;  
Kühnelt ; Jaczewski ; Tortonese ; Sylvester-Bradley ;

- (b) *Negative Votes :*

None ;



(c) *Voting Papers not returned, one (1) :*

Cabrera.

**9. Declaration of Result of Vote :** On 7th February 1958, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(57)65, signed a Certificate that the Votes cast were as set out in paragraph 8 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**10. Addition to the " Official Index of Rejected and Invalid Generic Names in Zoology " of two further junior homonyms of " Vermiculus " Dalyell, 1853 :** During the Prescribed Voting Period in respect of Voting Paper V.P.(57)65 it came to light that through some inadvertence two junior homonyms of the generic name *Vermiculus* Dalyell, 1853, a name involved in the present case, had not been included among the names recommended for addition to the *Official Index of Rejected and Invalid Generic Names in Zoology*. On receipt of this information the omission so detected was immediately made good by the following Minute executed by the Secretary on 24th January 1958 :—

**Addition to the " Official Index of Rejected and Invalid Generic Names in Zoology " of two further junior homonyms of " Vermiculus " Dalyell, 1853**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

Since the opening of the Prescribed Voting Period for Voting Paper V.P. (57)65 relating to the case of the generic name *Dracunculus* Reichard, 1759 (Class Nematoda) my attention has been drawn by Commissioner K. H. L. Key (*Canberra, Australia*) to the fact that, although in paragraph 6 of the Report which I submitted in this case, I noted that the name *Vermiculus* Dunlison, 1895, was a junior homonym not only of *Vermiculus* Dalyell, 1853, but also of two other names consisting

of the same word published before 1895, I did not cite those names and did not recommend that, as objectively invalid names, they should be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* at the same time as the name *Vermiculus* Dunglison, 1895, was so added. I regret this oversight on my part which it is the object of the present Minute to rectify.

2. The two invalid homonyms referred to above are the following :—

*Vermiculus* Moersch, 1860, *J. Conchyliol.* **8** : 28

*Vermiculus* Goodrich, 1892, *Zool. Anz.* **15** : 474

3. I now, as Secretary, direct that under the “Completeness-of-Opinions” Rule the objectively invalid names specified in paragraph 2 above be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* in the Ruling later to be prepared for the *Direction* giving effect to the decision by the Commission on Voting Paper V.P.(57)65.

#### 11. Preparation of the Ruling given in the present “Direction” :

On 9th February 1958 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(57)65, subject to the minor adjustment specified in the Minute executed by the Secretary on 24th January 1958, the text of which has been reproduced in paragraph 10 of the present *Direction*.

12. **Original References for Generic and Specific Names** : The following are the original references for the generic and specific names placed on *Official Lists* and *Official Indexes* by the Ruling given in the present *Direction* :—

*Draconculus* Penel, 1904, *Filaires Sang de l'Homme* : 61

*Dracunculus* Wiegmann, 1834, *Herpet. mex.* : 14

*Dracunculus* Krøyer (H.N.), [1838—1840], *Danmarks Fiske* **1** (No. 8) : 1

*Dracunculus* Moniez, 1896, *Traité Parasitol.* : 317

*Fuellebornius* Leiper, 1926, *Arch. Schiffs-u. Tropenhyg.* **30** : 491

*medinensis*, *Gordius*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 647

*Vermiculus* Moersch, 1860, *J. Conchyliol.* **8** : 28

*Vermiculus* Goodrich, 1892, *Zool. Anz.* **15** : 474

*Vermiculus* Dunglison, 1895, *Med. Lex.* (ed. 21) : 1150

**13. Original References for Family-Group Names :** The following is the original reference for the family-group name placed by the Ruling given in the present *Direction* on the *Official List of Family-Group Names in Zoology* :—

DRACUNCULIDAE Stiles (C.W.), 1907, *Bull. hyg. Lab. Washington* **34** : 38, 39

**14. Titles of Works :** The titles of the works placed on the *Official Index of Rejected and Invalid Works in Zoological Nomenclature* by the Ruling given in the present *Direction* are set out in full in the said Ruling.

**15. Compliance with Prescribed Procedures :** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

**16. “Direction” Number :** The present *Direction* shall be known as *Direction* One Hundred and Two (102) of the International Commission on Zoological Nomenclature.

DONE in London, this Ninth day of February, Nineteen Hundred and Fifty-Eight.

*Secretary to the International Commission  
on Zoological Nomenclature*

FRANCIS HEMMING